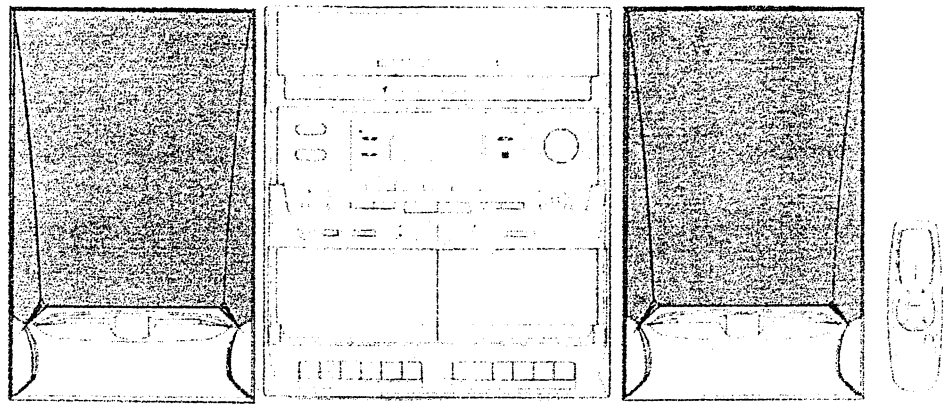
Quelle TECHNISCHER KUNDENDIENST

Technische Unterlage 107.021.8

VTC-CD 1077



UTS-Nr.: 999 QUELLE
Best.Nr.: 1070218/01
Ger.Bez.: UNIVERSUM-MINI-ANLAGE

GKz: G GERAET
WGT: 650 MICRO-/MINI-ANLAGEN
KD-Sektor: R RUNDFUNK
BaumNr.: 00 KEIN DIAGNOSEBAUM VORHANDEN
Klassierung: STK STEREOKOMBINATION
IFW-FehlerGru.: 205 RDF.,VERST.,TB.,PHONO,CD,CB
Type/Privileg/Universum.Nr VTC-CD1077
Beschreibung
VK-Preis: 349.00

Serviceart: 01 QUELLE-TKD
Garantie fuer Kunden 06 Monate
Sondervereinbarungen: 0 SIEHE SERVICEART

Garantiereparatur 9999999 QUELLE
Sondervereinbarungen: 0 SIEHE SERVICEART

Technische Daten

Netzanschluß: 230 V ~ (+6 /-10%) 50 Hz
Leistungsaufnahme:130 Watt max.
Abmessungen in cm. ca.:
B. 28,5 H. 35, T. 37

Verstärkerteil
Maximale Ausgangsleistung:
120 Watt (2 x 60 Watt)
Lautsprecherimpedanz (min):
4 Ohm (Anschlußwert)
Übertragungsbereich:
40 Hz-16 kHz; 1,5 dB
Übersprechdämpfung:
30 dB bei 1000 Hz

FM-Bereich (UKW)
87,5 - 108 MHz
Empfindlichkeit: 6 µV
Hub: 22,5 kHz und S/R-26 dB:
40 kHz Hub - 46 dB
S/R: 40 µV
Pilotunterdrückung: 19 kHz = 40 dB
38 kHz = 50 dB
MW-Bereich 531 - 1602 kHz
Empfindlichkeit: 1500 µV bei 26 dB S/N

Cassettenteil
Übertragungsbereich Aufnahme und Wiedergabe: (-8 dB) 63Hz - 12500 Hz
Geschwindigkeitsabweichung:
1,0 %
Tonhöhenschwankung:
0,3 %
Tonband: Normalcassetten

CD-Spieler
Optischer Tonabnehmer:
3-Strahlen-Laser
Fehlerkorrektur: CIRC
D/A-Umwandler: 16-Bit linear
Filter: Digitalfilter der 7.Ordnung

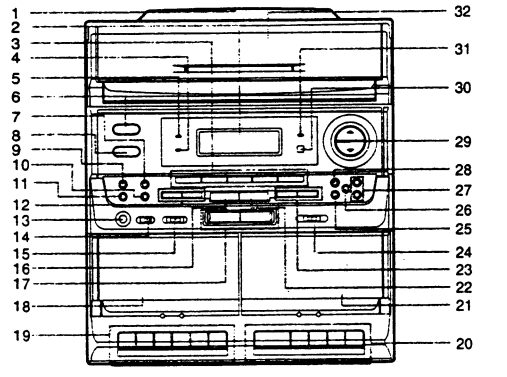
KAT. 975 **DATUM 23.02.98**

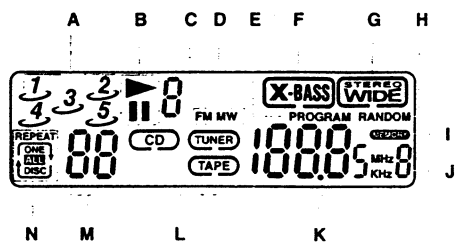
Bedienungselemente und Funktionen des Gerätes

① CD-Abdeckung
② Displayanzeige
③ **1 - 5** = Senderspeichertasten
④ ⏻ **STANDBY** = Bereitschaftsanzeige
⑤ **POWER** = Funktionsanzeige
⑥ POWER ⏻**STANDBY** = Ein-/Ausschalten aus Bereitschaft
⑦ **PROGRAM** = Speichern der Abspielreihenfolge
⑧ ▲ **OPEN/CLOSE** = Öffnen/Schließen der CD-Plattenschublade
⑨ **REPEAT** = Wiederholautomatik
⑩ **DISC SKIP** = Wahl des CD-Faches
⑪ **RANDOM** = Wiedergabe in einer Zufallsreihenfolge
⑫ **SEARCH ◀◀** = Suchlauf vorwärts
SEARCH ▶▶ = Suchlauf rückwärts
⑬ **PHONES** = Kopfhörerbuchse; 3,5 mm Ø Klinkenstecker
⑭ **FM STEREO - FM MONO** = Stereo-/Monoumschaltung
DUBBING NORMAL-HIGH = Wahl der Kopiergeschwindigkeit
HIGH = erhöhte Kopiergeschwindigkeit
NORMAL = normale Kopiergeschwindigkeit
BEAT CUT 1-2 = Umschalten der Vormagnetisierung
⑮ Funktionsschalter:
TAPE = für Cassettenwiedergabe
TUNER = für Rundfunkbetrieb
CD = Funktionstaste für CD-Spieler
⑯ **STOP** = Beenden der CD-Wiedergabe
⑰ **X-BASS** = Ein-/Ausschalten des Super-Baß-Systems
STEREO WIDE = Stereo-Raumklang ein-/ausschalten
⑱ Cassettenfachdeckel **TAPE A**
⑲ Laufwerktasten **TAPE A** für Aufnahme/Wiedergabe
PAUSE = Unterbrechen der Aufnahme
STOP/EJECT = Beenden der Wiedergabe, Öffnen des Cassettenfachs
F.FWD = schneller Vorlauf
REW = schneller Rücklauf
PLAY = Cassettenwiedergabe
REC = Aufnahmetaste
⑳ Laufwerktasten **TAPE B** nur für **Wiedergabe**
PAUSE = Pause, Unterbrechung
STOP/EJECT = Beenden der Wiedergabe, Öffnen des Cassettenfachs
F.FWD = schneller Vorlauf
REW = schneller Rücklauf
PLAY = Cassettenwiedergabe
㉑ Cassettenfachdeckel **TAPE B** nur Wiedergabe
㉒ **PLAY/PAUSE** = Starten der Wiedergabe, Pause
㉓ **SKIP ▶▶I** = Titelwahl vorwärts
SKIP I◀◀ = Titelwahl rückwärts
㉔ **BAND** = Wahl des Empfangsbereiches (**MW**= Mittelwelle/**FM** = UKW)
㉕ **SHIFT** = Aufrufen der zweiten Senderspeicherebene
㉖ **AUTO SCAN** = automatischer Sendersuchlauf
㉗ **TUNING ▲/▼** = Frequenzabstimmtasten
㉘ **MEMORY** = Senderspeichertaste
㉙ **VOLUME** = Lautstärkereglertasten; drücken von ▲ erhöht bzw. ▼ verringert die Lautstärke
㉚ **REMOTE SENSOR** = Fernbedienungsempfänger
㉛ **FM STEREO** = leuchtet bei Stereoempfang
㉜ CD-Plattenschublade

Rückseite

㉝ UKW-Wurfantenne
㉞ Batteriefach für zwei 1,5 Volt Batterien (LR 14) zur Senderspeicherung
㉟ Netzanschlußkabel 230 Volt/50 Hz
㊱ **POWER** = Netzschalter
㊲ Lautsprecheranschlüsse **SPEAKER**
R = rechter Kanal
L = linker Kanal

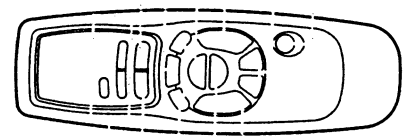




Bedienungselemente und Funktionen der Fernbedienung

❶ **ST-WIDE** = Taste zum Raumklang ein-/ausschalten
❷ **REPEAT** = Wiederholautomatik
❸ **OPEN/CLOSE** = Öffnen/Schließen des CD-Plattenfaches
❹ **VOLUME** = Lautstärkereglertasten; drükken von **UP** erhöht bzw. **DOWN** verringert die Lautstärke
❺ **PLAY/PAUSE** = Starten der Wiedergabe; Pause
STOP = Beenden der Wiedergabe
❻ **POWER** = Ein-/Ausschalten der Anlage
❼ Batteriefach 2 x 1,5 V Micro LR 03 (Rückseite)
❽ **SKIP ▶▶I** = Titelwahl vorwärts
SKIP I◀◀ = Titelwahl rückwärts
❾ **DISC SKIP** = Wahl des CD-Faches
❿ **◀◀** = Suchlauf vorwärts
▶▶ = Suchlauf rückwärts
⓫ **X-BASS** = Ein-/Ausschalten des Super-Bass-Systems
⓬ **AUTO SCAN** = automatischer Sendersuchlauf
TUNING ▲/▼ = Frequenzabstimmtaste

❶ ❷ ❸ ❹ ❺ ❻

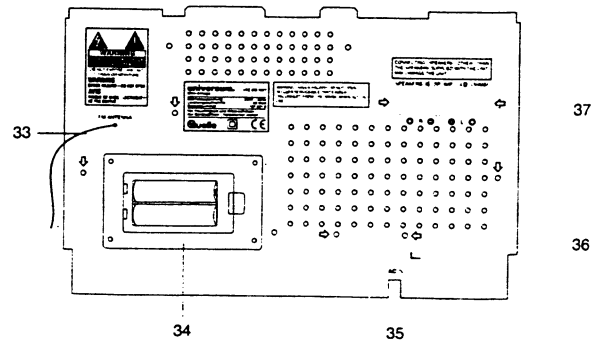


❼ ❽ ❾ ❿ ⓫ ⓬

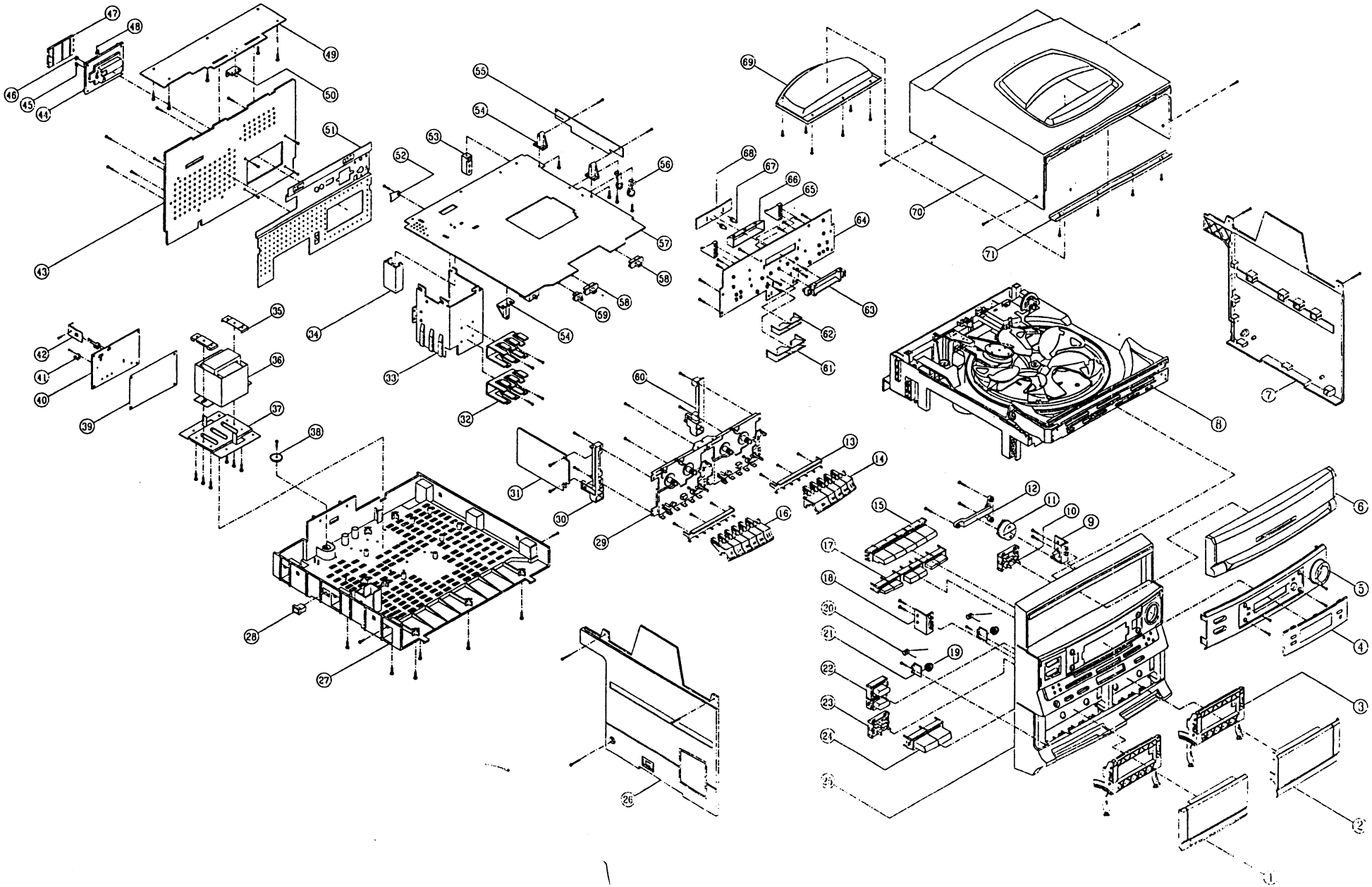
Anzeigen im Display

Ⓐ **1 - 2 - 3 - 4 - 5** = Anzeige der eingelegten CD´s
Ⓑ **▶ II** = Wiedergabe-/Pauseanzeige
Ⓒ *8* = Nummernanzeige der gewählten CD
Ⓓ **FM/MW**= Bereichsanzeige
Ⓔ **PROGRAM** = programmierte Reihenfolge
Ⓕ **X-BASS** = baßbetonte Wiedergabe
Ⓖ **STEREO-WIDE** = Raumklang-Wiedergabe
Ⓗ **RANDOM** = Zufallswiedergabe
Ⓘ MEMORY = Senderspeicher
Ⓙ Nummer des Senderspeichers
Ⓚ Senderfrequenz
Ⓛ Anzeige der gewählten Funktion: **CD**, **TUNER** oder **TAPE**
Ⓜ Anzeige der Titelnummer
Ⓝ Anzeige der gewählten Repeat-Funktion

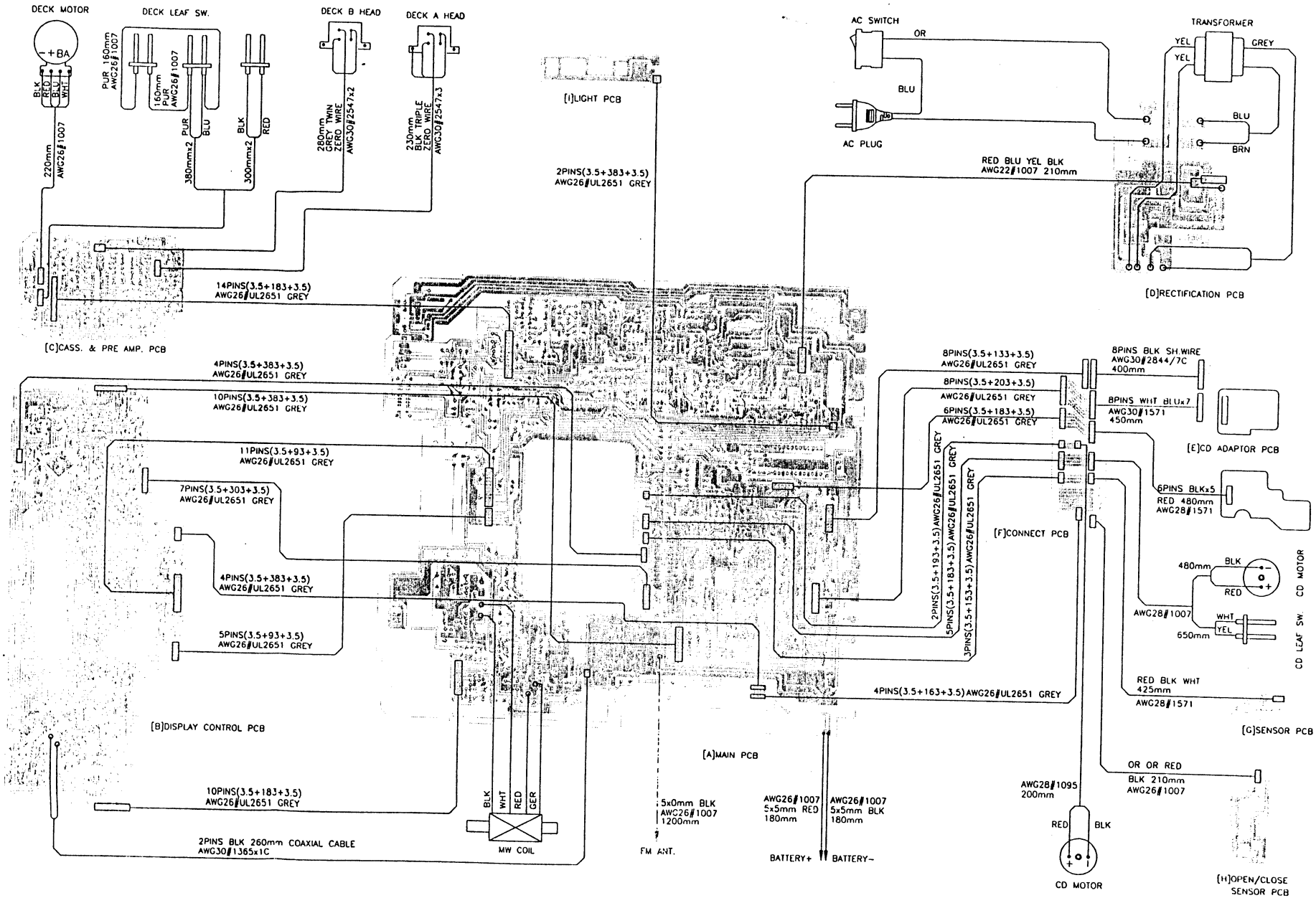
Rückseite



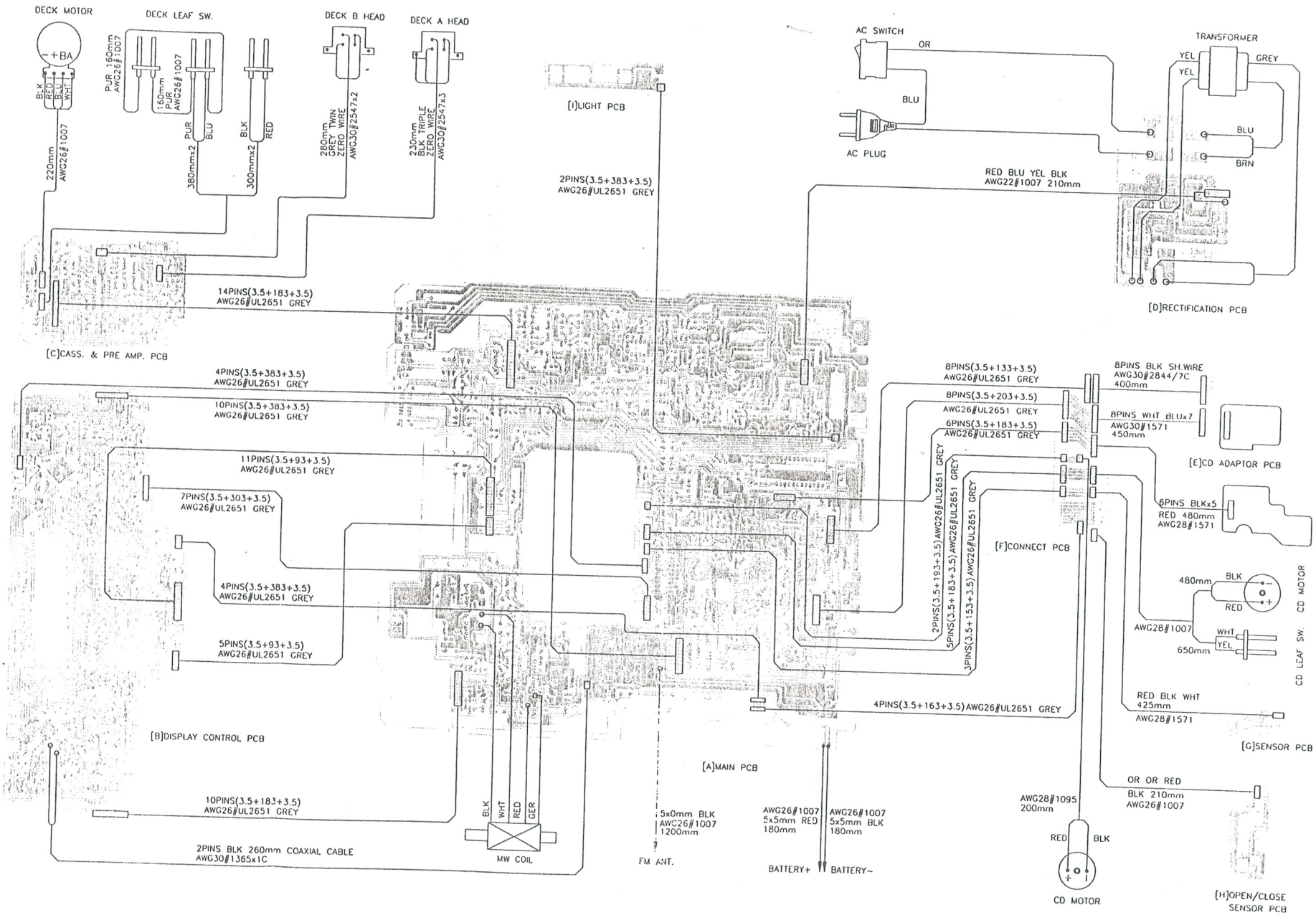
EXPLODED DRAWING - MAIN UNIT



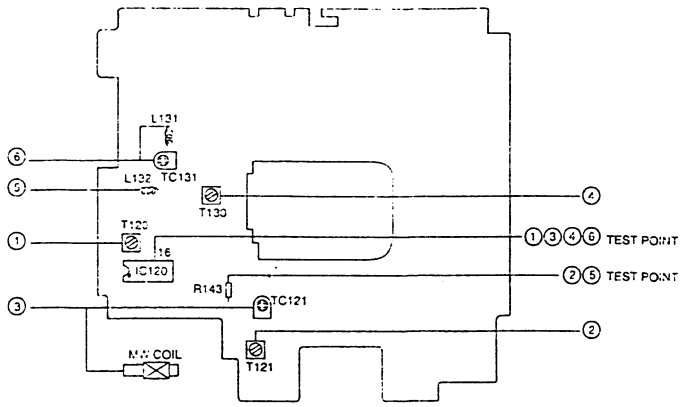
WIRING DIAGRAM



WIRING DIAGRAM



ALIGNMENT SET-UP PROCEDURES



TUNER SECTION ALIGNMENT DIAGRAM

TUNER SECTION

1. AM IF Adjustment
   Test point: IC120(BA1448S) 16 PIN
   Adjustment location: T120
   T120---------- 450KHz

2. MW Frequency Range Adjustment
   Set the frequency to be 531KHz
   then test voltage
   Test point: R143
   Adjustment location: T121
   T121---------- Test point voltage is 10.7V

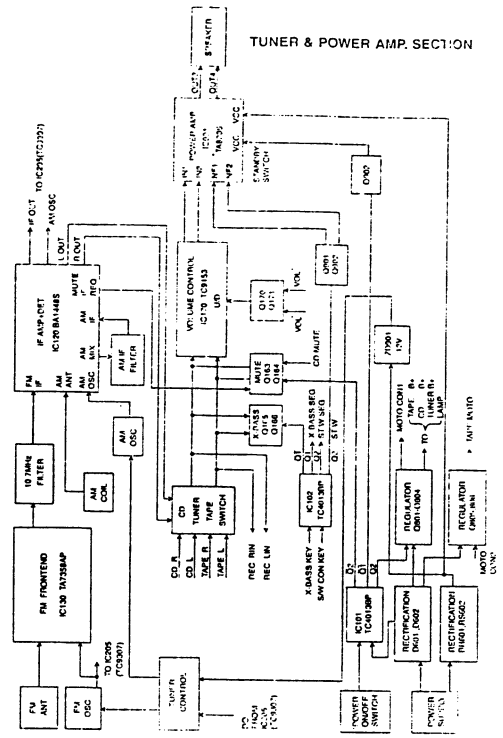
3. MW Tracking Adjustment
   Test point: IC120(BA1448S) 16 PIN
   Adjustment location: MW COIL , TC121
   MW COIL---------- 603KHz waveform maximum
   TC121---------- 1404KHz waveform maximum

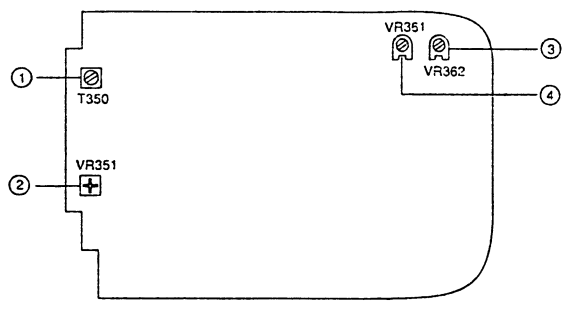
4. FM IF Adjustment
   Test point: IC120(BA1448S) 16 PIN
   Adjustment location: T130
   T130---------- 10.7MHz

5. FM Frequency Range Adjustment
   Set the frequency to be 87.5MHz
   then test voltage
   Test point: R143
   Adjustment location: L132
   L132---------- Test point voltage is 2.6V

6. FM Tracking Adjustment
   Test point: IC120(BA1448S) 16 PIN
   Adjustment location: L131 , TC131
   L131---------- 90MHz waveform maximum
   TC131---------- 106MHz waveform maximum

TUNER & POWER AMP. SECTION





CASSETTE SECTION ALIGNMENT DIAGRAM

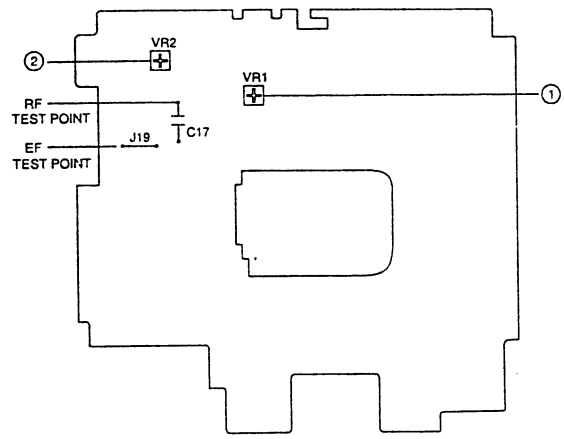
CASSETTE SECTION

1. BIAS Frequency Adjustment
   Test point: T350 4 PIN
   Adjustment location: T350
   T350 ---------- 60KHz

2. BIAS Level Adjustment
   Test point: T350 4 PIN
   Adjustment location: VR351
   VR351 ---------- 14V

3. Normal Tape Speed Adjustment
   Test point: headphone
   Adjustment location: VR362
   VR362 ---------- 2980-3020Hz

4. High Tape Speed Adjustment
   Test point: headphone
   Adjustment location: VR361
   VR361 ---------- 5900-6100Hz

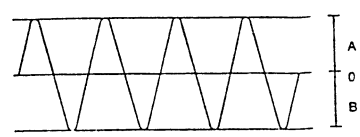


CD SECTION ALIGNMENT DIAGRAM

CD SECTION

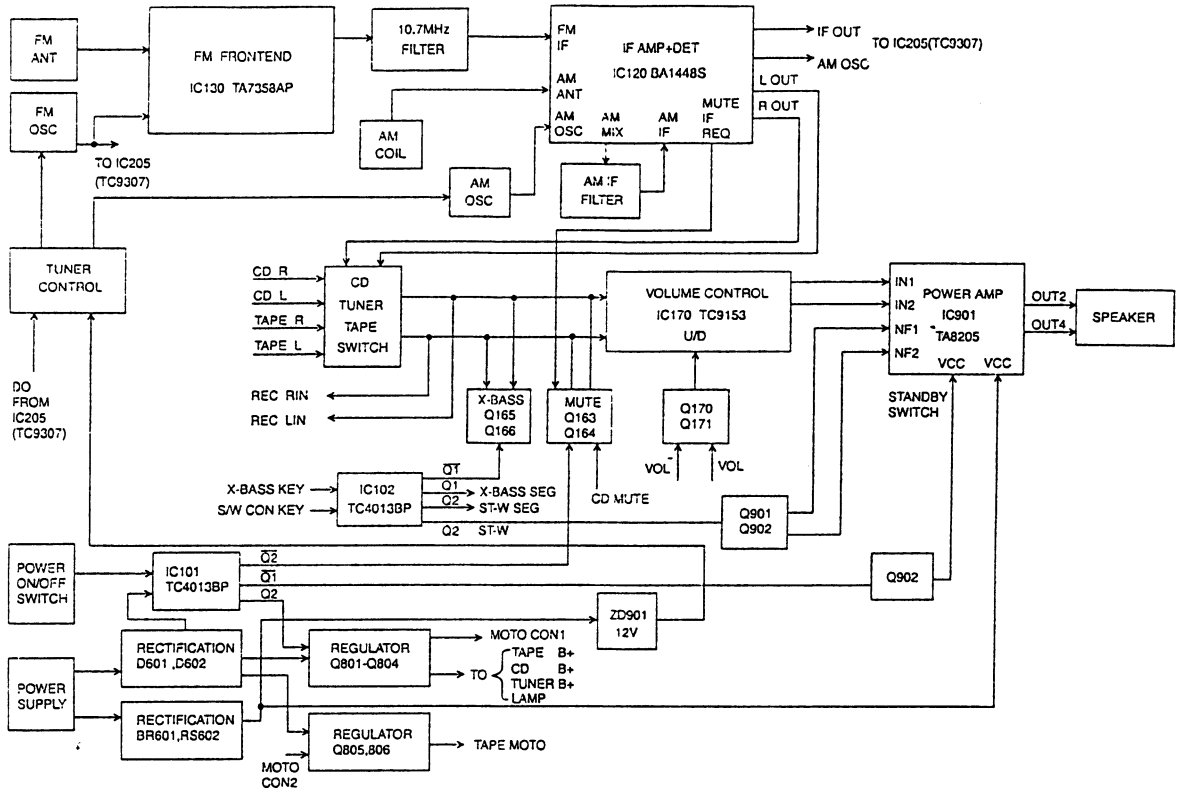
1. RF Adjustment
   Test point: C17 and VREF
   1). Connect an oscilloscope to the test points
   2). Turn on the power switch
   3). Load the test disc(TCD-782) and play the NO.2(1KHz, 0dB)
   4). Adjust VR1 so that the RF peak is maximum and waveform eye pattern is optimum
   5). Turn off the power switch
   VR1---------- waveform 1.8Vpp ± 0.3V

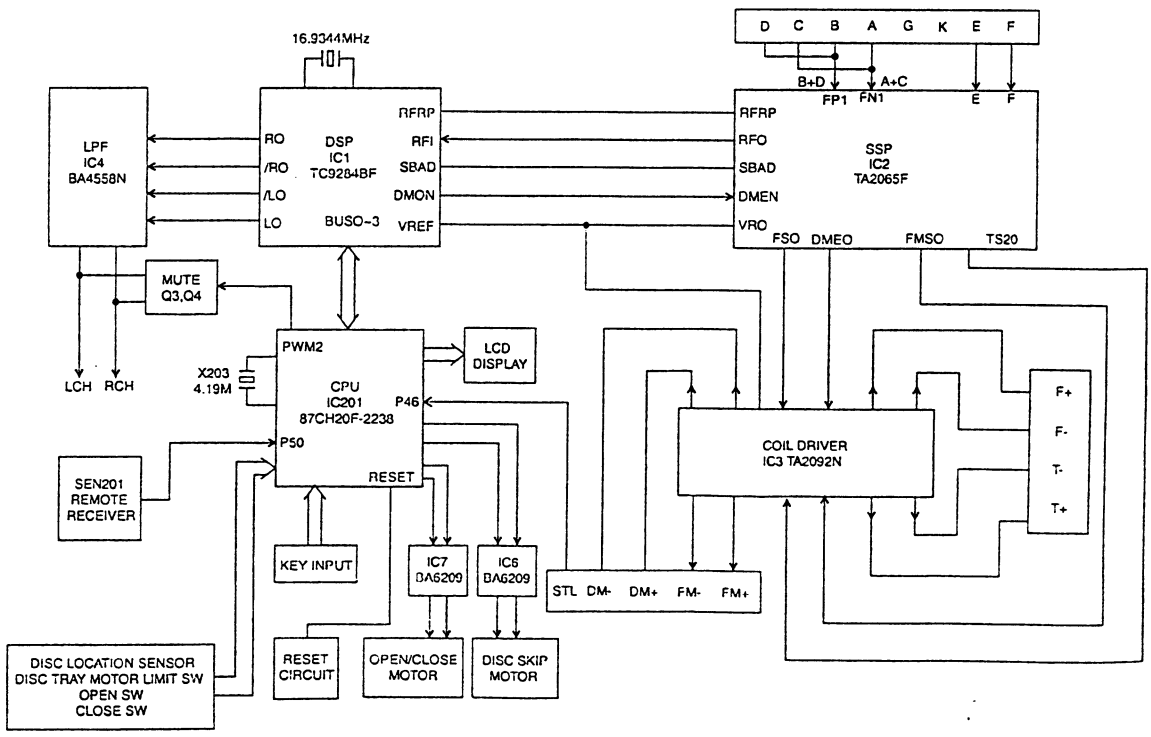
2. EF Balance Adjustment
   Test point: J19 and VREF
   1). Connect an oscilloscope to the test points
   2). Turn on the power switch
   3). Load the test disc(TCD-782) and press ▷▷| so that EF waveform can be seen.
   4). Adjust VR2 so that EF waveform is symmetrical(A=B)
   5). Turn off the power switch



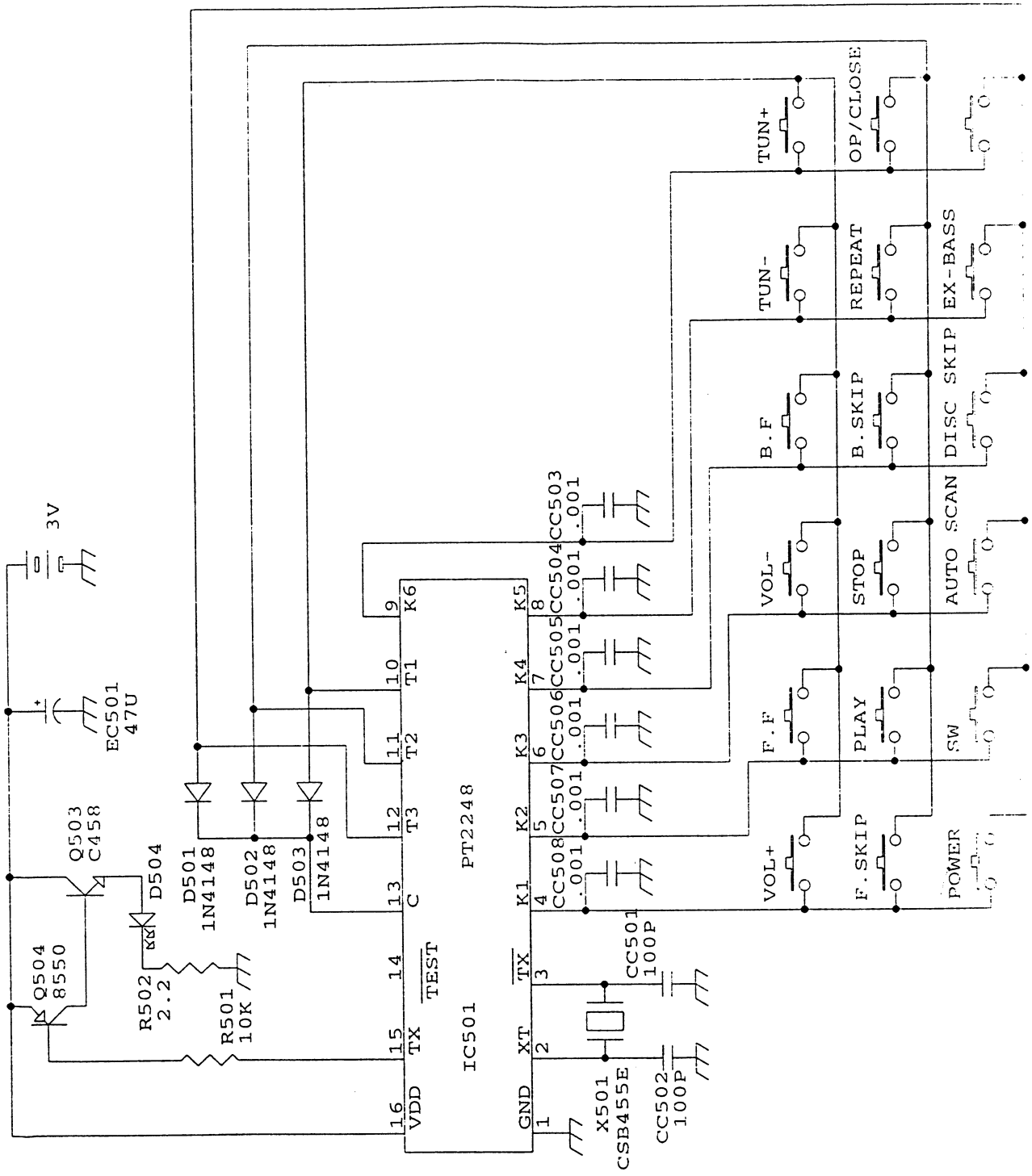
EF WAVEFORM

A=B VOLT/DIV:20mV
TIME/DIV:1mS


FM ANT
FM OSC
FM FRONTEND
IC130 TA7358AP
10.7MHz FILTER
AM COIL
AM OSC
TO IC205 (TC9307)
FM IF
AM ANT
AM OSC
IF AMP+DET
IC120 BA1448S
AM MIX
AM IF
MUTE IF REQ
IF OUT
TO IC205(TC9307)
AM OSC
L OUT
R OUT
AM I.F FILTER
TUNER CONTROL
DO FROM IC205 (TC9307)
CD R
CD L
TAPE R
TAPE L
CD TUNER TAPE SWITCH
REC RIN
REC LIN
X-BASS Q165 Q166
MUTE Q163 Q164
VOLUME CONTROL IC170 TC9153 U/D
Q170 Q171
VOL
VOL
IN1
IN2
NF1
NF2
POWER AMP IC901 TA8205
VCC VCC
OUT2
OUT4
SPEAKER
STANDBY SWITCH
X-BASS KEY
S/W CON KEY
IC102 TC4013BP
X-BASS SEG
ST-W SEG
ST-W
CD MUTE
Q901 Q902
POWER ON/OFF SWITCH
IC101 TC4013BP
Q902
ZD901 12V
POWER SUPPLY
RECTIFICATION D601 ,D602
REGULATOR Q801-Q804
MOTO CON1
TO
TAPE B+
CD B+
TUNER B+
LAMP
RECTIFICATION BR601,RS602
REGULATOR Q805,806
TAPE MOTO
MOTO CON2


16.9344MHz
D C B A G K E F
B+D
A+C
FP1 FN1
E F
LPF IC4 BA4558N
RO
/RO
/LO
LO
DSP IC1 TC9284BF
BUSO~3
RFRP
RFI
SBAD
DMON
VREF
RFRP
RFO
SBAD
DMEN
VRO
SSP IC2 TA2065F
FSO DMEO
FMSO
TS20
MUTE Q3,Q4
LCH RCH
X203 4.19M
PWM2
CPU IC201 87CH20F-2238
P46
P50
RESET
LCD DISPLAY
SEN201 REMOTE RECEIVER
KEY INPUT
IC7 BA6209
IC6 BA6209
COIL DRIVER IC3 TA2092N
F+
F-
T-
T+
STL DM- DM+ FM- FM+
DISC LOCATION SENSOR
DISC TRAY MOTOR LIMIT SW
OPEN SW
CLOSE SW
RESET CIRCUIT
OPEN/CLOSE MOTOR
DISC SKIP MOTOR

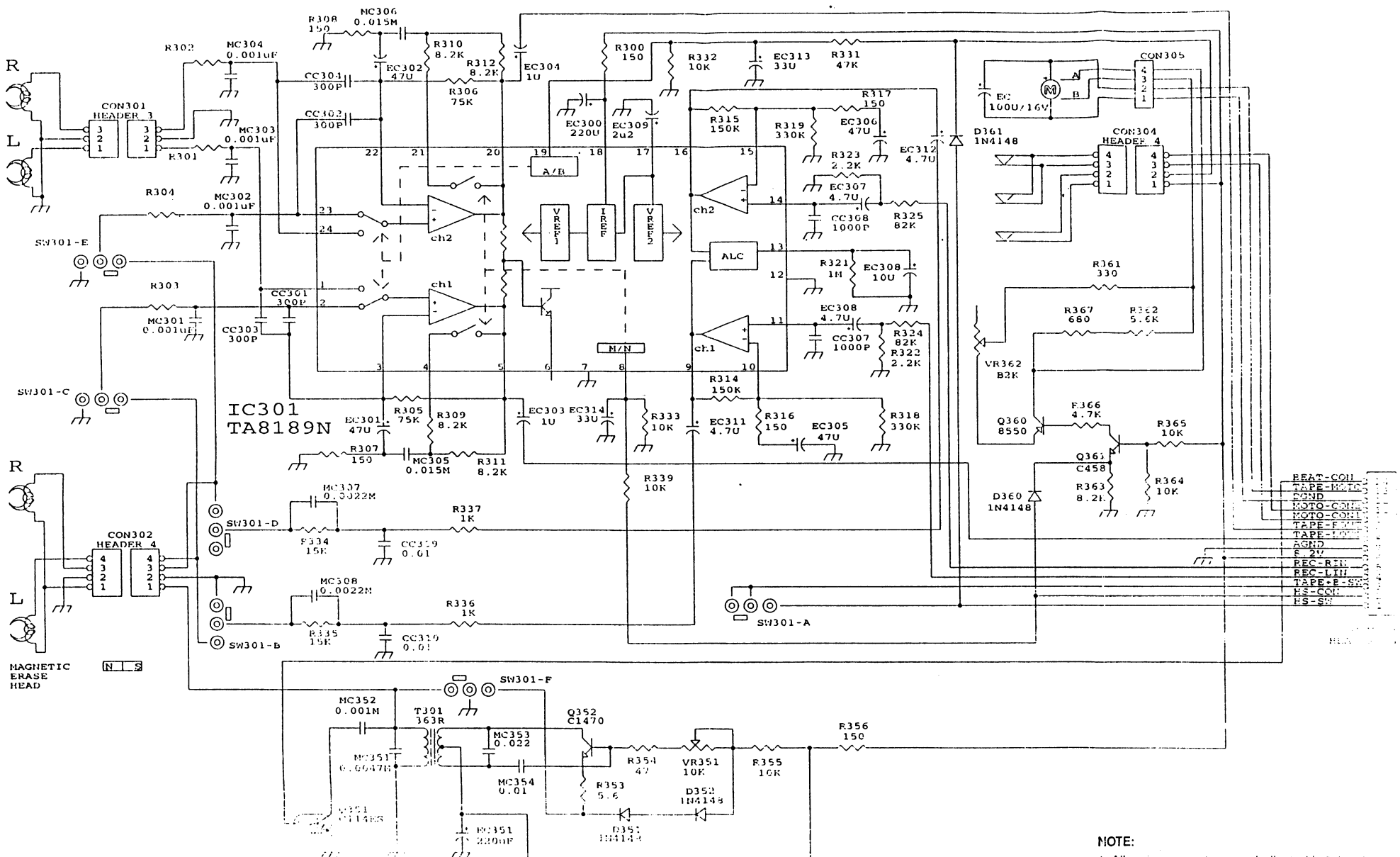
REMOTE SECTION



NOTE:

1. All resistance values are indicated in "ohms"
   (k=1000 ohms. M=1000 kohms)
2. All capacitance values are indicated in "μF" ($p=10^{-6}$μF)

CASS. & PRE-AMP.SECTION

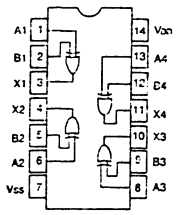


NOTE:

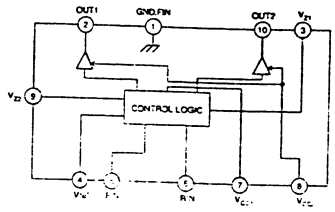
1. All resistance values are indicated in "ohms" (k=1000 ohms, M=1000 kohms)
2. All capacitance values are indicated in "μF" (p=10⁻⁶ μF)

IC LEAD IDENTIFICATION AND INTERNAL DIAGRAMS

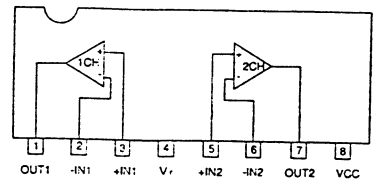
IC202,204 TC4030BP



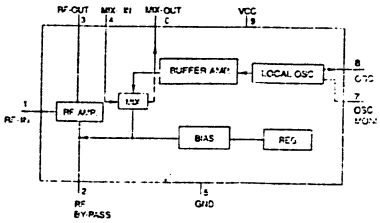
IC6,7 BA6209



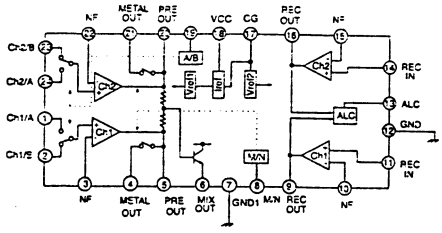
IC4 BA4558N



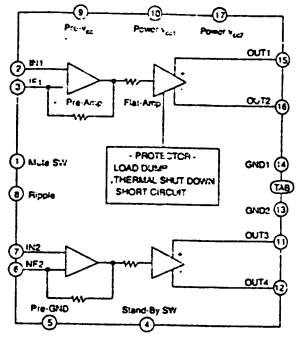
IC130 TA7358AP



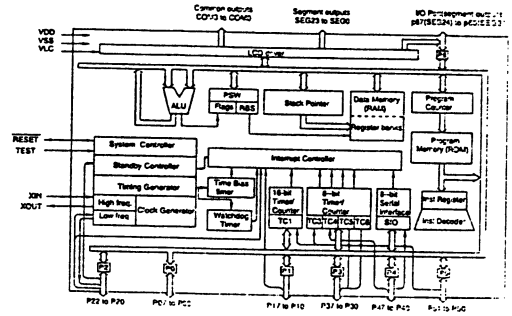
IC301 TA8189N



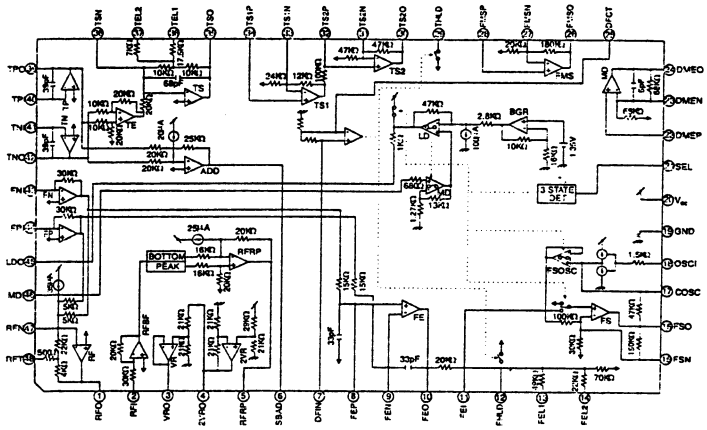
IC901 TA8205AH



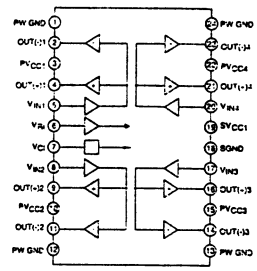
IC201 TMP87CH20F



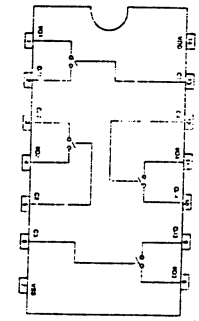
IC2 BA2065F



IC3 TA2092N

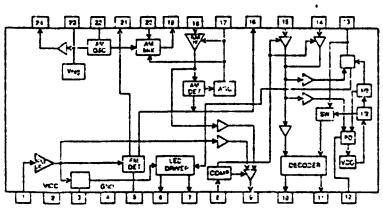


IC203 BU4066BCF

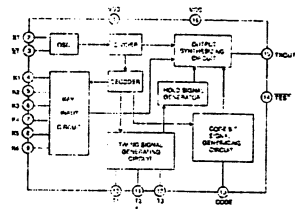


IC170 PT2253A

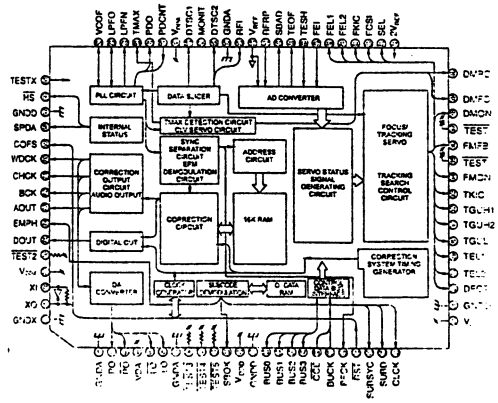
IC120 BA1448S

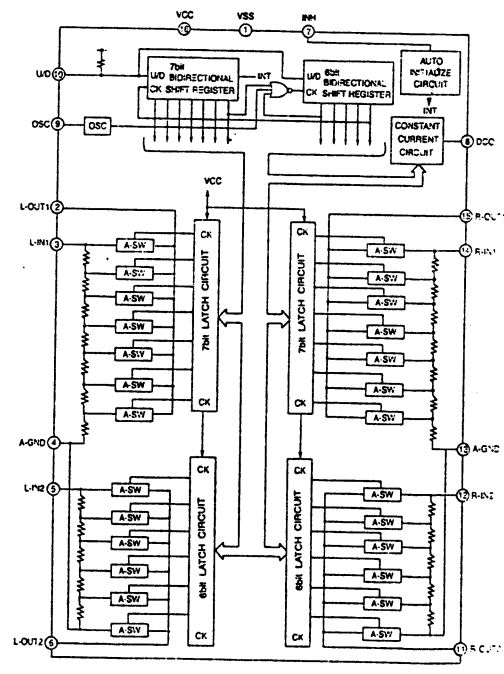


IC501 PT2248



IC1 TC9284SF





VOLTAGE CHART

TUNER SECTION
TEST CONDITION: SET AM/FM TUNER ON ONE FREQUENCY

IC130 TA7358AP

PIN'S NUMBER	1	2	3	4	5	6	7	8	9
FM	0.07	1.59	7.35	1.56	0	7.37	6.60	7.32	7.37

IC120 BA1448S

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
AM	2.06	5.12	0	0	4.26	0	4.27	0.05	4.37	1.54	1.56	0
FM	2.07	5.44	0.32	0	3.75	1.75	4.17	0.06	4.67	1.56	1.59	2.01
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
AM	1.69	2.06	2.06	2.03	2.06	5.24	5.05	0.97	2.27	2.03	2.06	1.63
FM	1.55	2.08	2.07	1.90	2.08	5.42	5.43	0.03	2.06	2.05	2.06	2.07

IC170 PT2253A

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
VOL UP	0	3.84	3.83	3.84	3.83	3.83	5.62	7.70	7.64	7.69
PIN'S NUMBER	11	12	13	14	15	16				
VOL UP	3.83	3.84	3.84	3.83	3.84	7.71				

IC205 TC9307AF-008

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
AM	0	0	0	0	4.50	4.50	4.50	4.50	1.53	3.00	3.00	3.01
FM	0	0	0	0	4.41	4.42	4.41	4.42	1.45	2.93	2.93	2.93
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
AM	3.01	3.00	3.01	3.02	4.51	3.01	3.01	3.00	3.01	3.01	3.01	3.00
FM	2.93	2.93	2.92	2.93	4.42	2.93	2.93	2.92	2.94	2.94	2.92	2.94
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
AM	3.00	3.01	0	4.52	5.07	0.30	0	2.36	1.10	0.45	4.66	0
FM	2.93	2.93	0	4.44	0	0	0	2.31	1.15	0.38	4.59	2.29
PIN'S NUMBER	37	38	39	40	41	42	43	44				
AM	0	2.29	4.50	2.12	1.78	4.50	0	0				
FM	0	0	4.42	2.09	1.76	4.42	0	0				

IC203 BU4066BCF

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
AM	0	4.29	5.09	5.04	1.25	0	0	0	4.38	0
FM	0	4.23	5.03	5.02	1.06	0	0	0	4.24	0
PIN'S NUMBER	11	12	13	14						
AM	4.42	0	0	5.07						
FM	4.25	0	0	5.05						

	Q903(C458)			Q130(C535)		
	E	C	B	E	C	B
AM	0.82	2.42	1.46	0	0	0
FM	0.88	2.56	1.52	0	2.98	0.76

POWER AMP SECTION
TEST CONDITION: TAPE PLAY

IC101 MC14013BCP

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
TAPE PLAY	5.19	0	0	0	0	0	0	0	0	0
PIN'S NUMBER	11	12	13	14						
TAPE PLAY	0	0	5.20	5.22						

VOLTAGE CHART - CONTINUED

IC102 MC14013BCP

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
TAPE PLAY	0	5.03	0	0	5.08	0	0	0	5.07	0
PIN'S NUMBER	11	12	13	14						
TAPE PLAY	0	5.04	0	5.24						

IC901 TA8205

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
TAPE PLAY	1.96	0	0	0.70	0	0	0	0	12.26	12.29
PIN'S NUMBER	11	12	13	14	15	16	17			
TAPE PLAY	0	0	0	0	0	0	12.28			

	Q801(1185)			Q802(C458)			Q803(8550)			Q305(C458)		
	E	C	B	E	C	B	E	C	B	E	C	B
TAPE PLAY	11.24	8.33	10.67	7.62	10.26	8.23	10.98	10.73	10.19	9.55	10.22	10.18
	Q806(8550)											
	E	C	B									
TAPE PLAY	10.97	10.14	10.20									

REMOTE SETCTION
TEST CONDITION: QUIET VOLTAGE

IC501 PT2248

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
	0	0	3.03	0	0	0	0	0	0	3.03
PIN'S NUMBER	11	12	13	14	15	16				
	3.03	3.03	3.01	3.00	3.03	3.03				

IC701 PT2250A

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	0	0	0	0	0	0	0	0	5.41	5.42	0	0
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
	0	0	0	0	0	0	0	0	5.40	5.42	2.77	5.42

	Q503(C458)			Q504(8550)			Q701(C458)			Q702(A844)		
	E	C	B	E	C	B	E	C	B	E	C	B
	0	3.03	0	3.03	0	3.03	0	5.39	0	5.36	0	5.36

CASSETTE SECTION
TEST CONDITION: TAPE PLAY

IC301 TA8189N

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
DECK A	0	0	1.26	1.35	1.35	2.78	0	0	1.88	1.26	0	0
DECK B	0	0	1.26	1.35	1.35	2.79	0	0	1.88	1.26	0	0
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
DECK A	0.86	0	1.27	1.90	1.44	6.74	0	1.35	1.35	1.26	0	0
DECK B	0.85	0	1.27	1.89	1.44	6.74	1.43	1.34	1.34	1.26	0	0

	Q352(8050)			Q360(C458)			Q351(C458)		
	E	C	B	E	C	B	E	C	B
NOR.REC.	0	8.34	8.33	9.15	9.10	8.40	4.90	5.73	5.59
HI.REC.	7.93	8.33	8.32	9.28	9.34	8.54	4.93	5.70	5.56

VOLTAGE CHART - CONTINUED

CD SECTION
TEST CONDITION: CD PLAY

IC1 TC9284BF

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	0	2.50	2.71	4.84	2.72	2.49	0	/	/	/	/	4.84
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
	0	4.46	4.52	0	0	4.32	4.67	/	4.84	/	/	/
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
	4.85	0	2.21	2.06	2.06	2.06	1.99	2.06	1.68	2.06	4.82	1.78
PIN'S NUMBER	37	38	39	40	41	42	43	44	45	46	47	48
	4.81	2.06	2.06	2.20	4.12	4.82	2.42	2.42	2.08	2.06	2.08	2.06
PIN'S NUMBER	49	50	51	52	53	54	55	56	57	58	59	60
	2.06	2.32	2.33	2.06	2.03	0	2.35	/	2.35	4.86	4.86	2.07
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70	71	72
	2.02	0	0	1.17	0	/	0	/	/	/	/	/
PIN'S NUMBER	73	74	75	76	77	78	79	80				
	/	/	/	/	/	1.74	0	0				

IC2 TA2065F

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	2.16	2.05	2.06	4.11	2.32	2.32	2.32	2.05	2.05	2.11	2.08	1.97
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
	2.06	2.08	2.08	2.18	2.17	2.43	0	4.85	4.83	2.08	2.08	2.15
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
	2.11	2.03	2.05	2.06	1.98	2.06	2.06	2.07	2.06	2.06	2.07	2.06
PIN'S NUMBER	37	38	39	40	41	42	43	44	45	46	47	48
	2.06	2.07	1.76	2.03	2.01	1.69	1.77	2.04	3.71	0.18	2.06	2.11

IC3 TA2092N

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	0	2.95	7.26	3.69	2.18	2.06	3.34	2.02	3.26	7.25	3.44	0
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
	0	3.02	7.23	3.66	2.17	0	7.25	2.06	3.31	7.28	3.36	0

IC4 BA4558

PIN'S NUMBER	1	2	3	4	5	6	7	8
	4.72	4.32	4.29	0.02	4.29	4.31	4.72	6.97

IC6 BA6209

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DISC SKIP	0	4.91	6.37	5.42	4.57	0	6.67	5.87	0.92	0.05

IC7 BA6209

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
OPEN	0	0	0	0	0	0	6.65	0	0.93	0.45
CLOSE	0	0	0.92	0	0	0	0	0	0.95	4.72

VOLTAGE CHART - CONTINUED

IC201 TMP87CH20F-2238

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
	/	/	/	/	/	/	/	/	0	0.68	0.65	4.79
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
	1.96	2.16	0	0.65	0.64	0.66	0.65	0.65	0.65	1.67	0.54	0.52
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
	0	4.87	4.88	4.87	0	4.87	4.87	4.87	4.90	0.05	4.78	4.83
PIN'S NUMBER	37	38	39	40	41	42	43	44	45	46	47	48
	0.05	0.04	0.05	0.05	0	4.87	0	4.15	0	4.91	0.06	0.62
PIN'S NUMBER	49	50	51	52	53	54	55	56	57	58	59	60
	0.65	4.87	0.63	0.03	4.34	4.45	4.31	4.35	4.88	4.88	0.03	4.88
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70	71	72
	/	/	/	/	/	/	/	/	/	/	/	/
PIN'S NUMBER	73	74	75	76	77	78	79	80				
	/	/	/	/	/	/	/	/				

	Q1(8550)			Q2(8050)			Q3(C458)		
	E	C	B	E	C	B	E	C	B
	4.37	2.06	3.69	4.86	7.26	5.53	0	0	0
	Q4(C458)			Q5(A844)					
	E	C	B	E	C	B			
	0	0	0.04	4.85	0.02	4.85			

CONTROL & DISPLAY SECTION

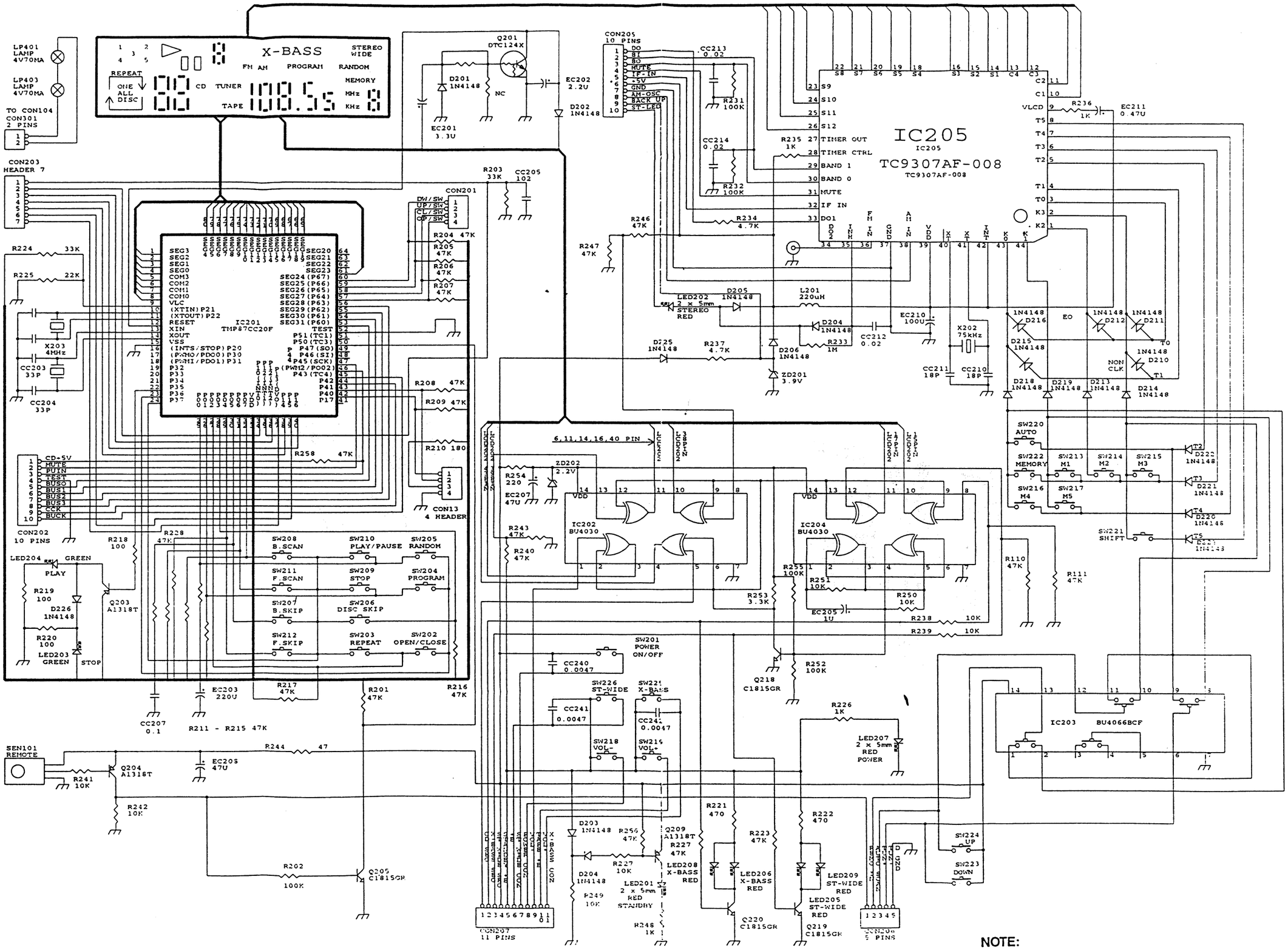
IC202 TC4030BP

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
FM	1.34	2.48	1.34	0.50	1.34	2.48	0	0	1.41	1.41
CD PLAY	1.35	2.49	1.34	0.51	1.35	2.49	0	0	1.42	1.42
TAPE PLAY	1.34	2.49	1.34	0.50	1.35	2.49	0	0	1.41	1.41
PIN'S NUMBER	11	12	13	14						
FM	1.41	0	1.41	2.48						
CD PLAY	1.42	0	1.42	2.49						
TAPE PLAY	1.41	0	1.41	2.49						

IC204 TC4030BP

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
FM	0	1.41	1.41	1.40	0	1.41	0	2.53	1.41	1.07
CD PLAY	0	1.42	1.42	1.09	2.29	1.42	0	0	1.42	1.42
TAPE PLAY	2.30	1.41	1.08	1.41	0	1.41	0	0	1.42	1.41
PIN'S NUMBER	11	12	13	14						
FM	1.07	1.41	2.80	2.48						
CD PLAY	1.08	1.42	2.81	2.49						
TAPE PLAY	1.08	1.41	2.80	2.49						

CONTROL SECTION

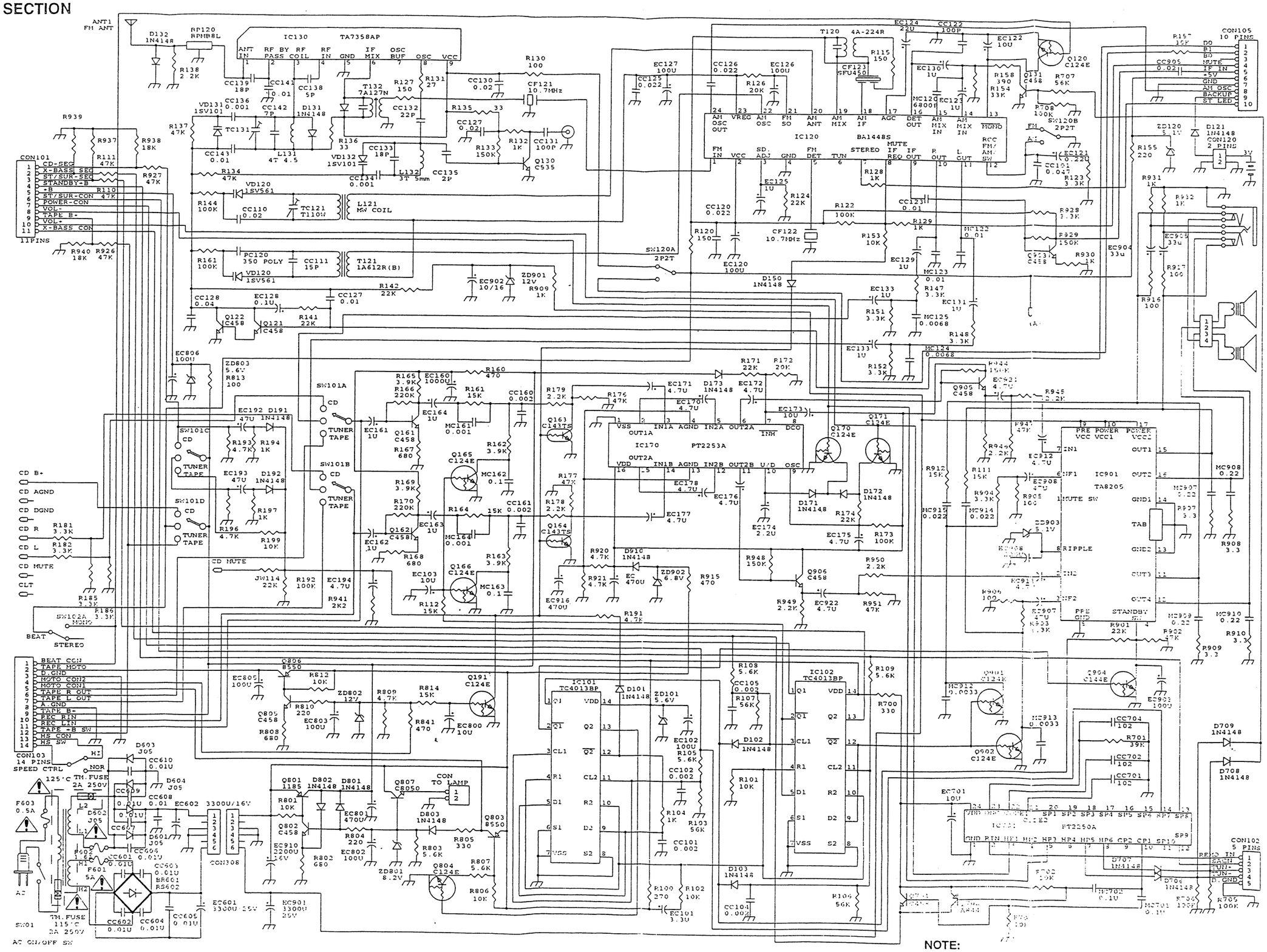


NOTE:

1. All resistance values are indicated in "ohms" (k=1000 ohms. M=1000 kohms)
2. All capacitance values are indicated in "μF" ($p=10^{-6}\mu F$)

SCHEMATIC DIAGRAMS

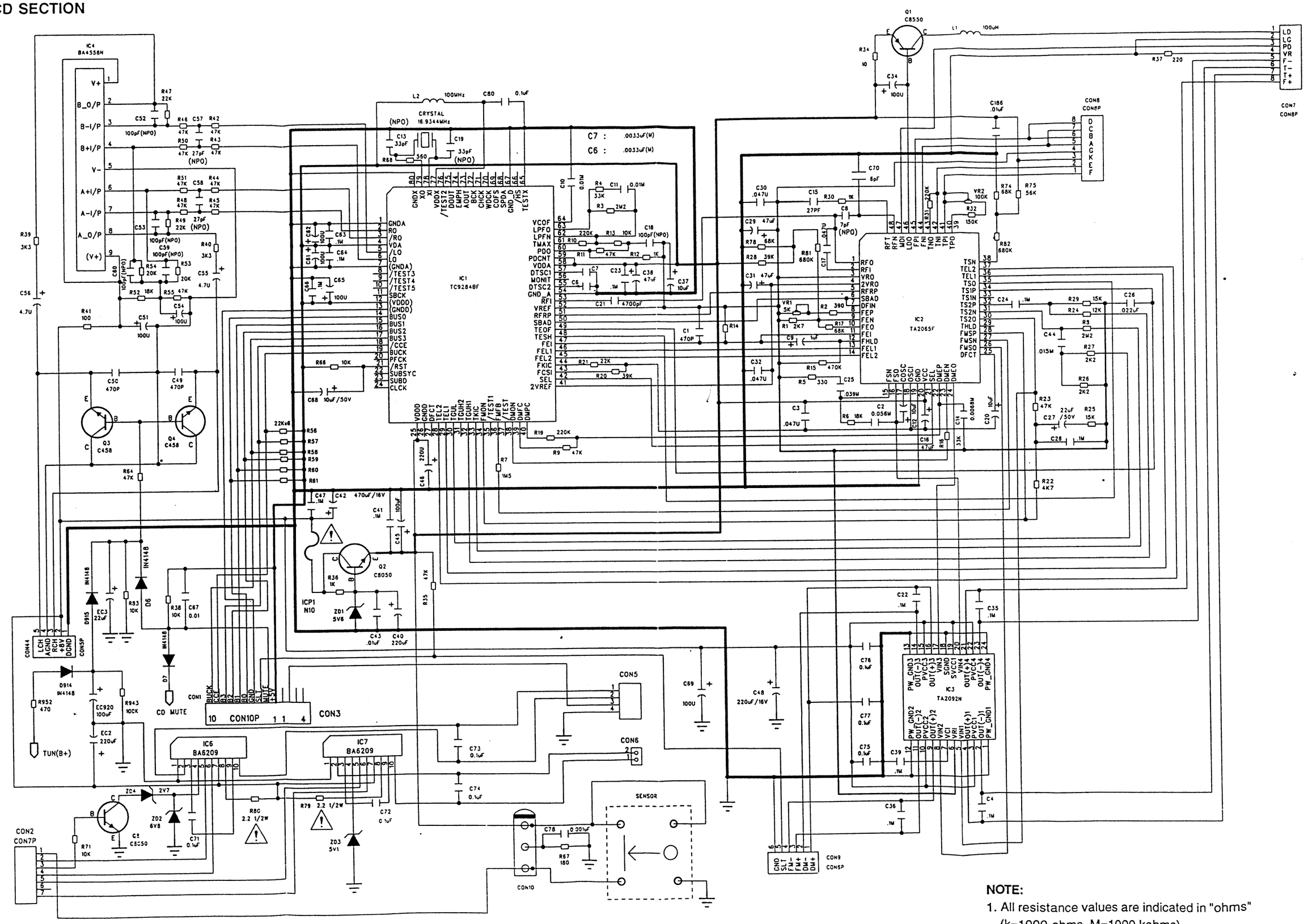
TUNER SECTION



NOTE:

1. All resistance values are indicated in "ohms" (k=1000 ohms. M=1000 kohms)
2. All capacitance values are indicated in "μF" ($p=10^{-6}$ μF)

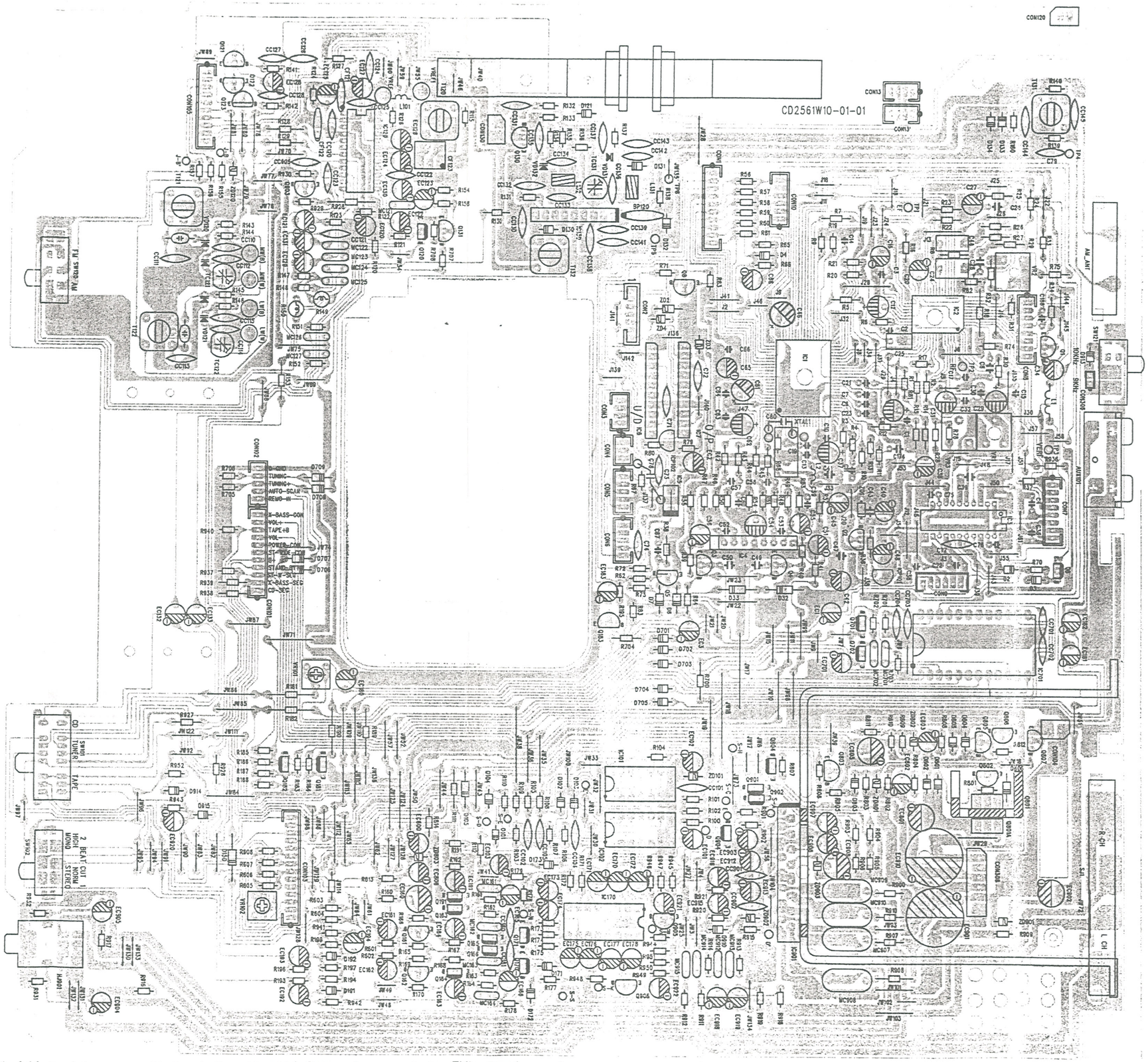
CD SECTION



NOTE:

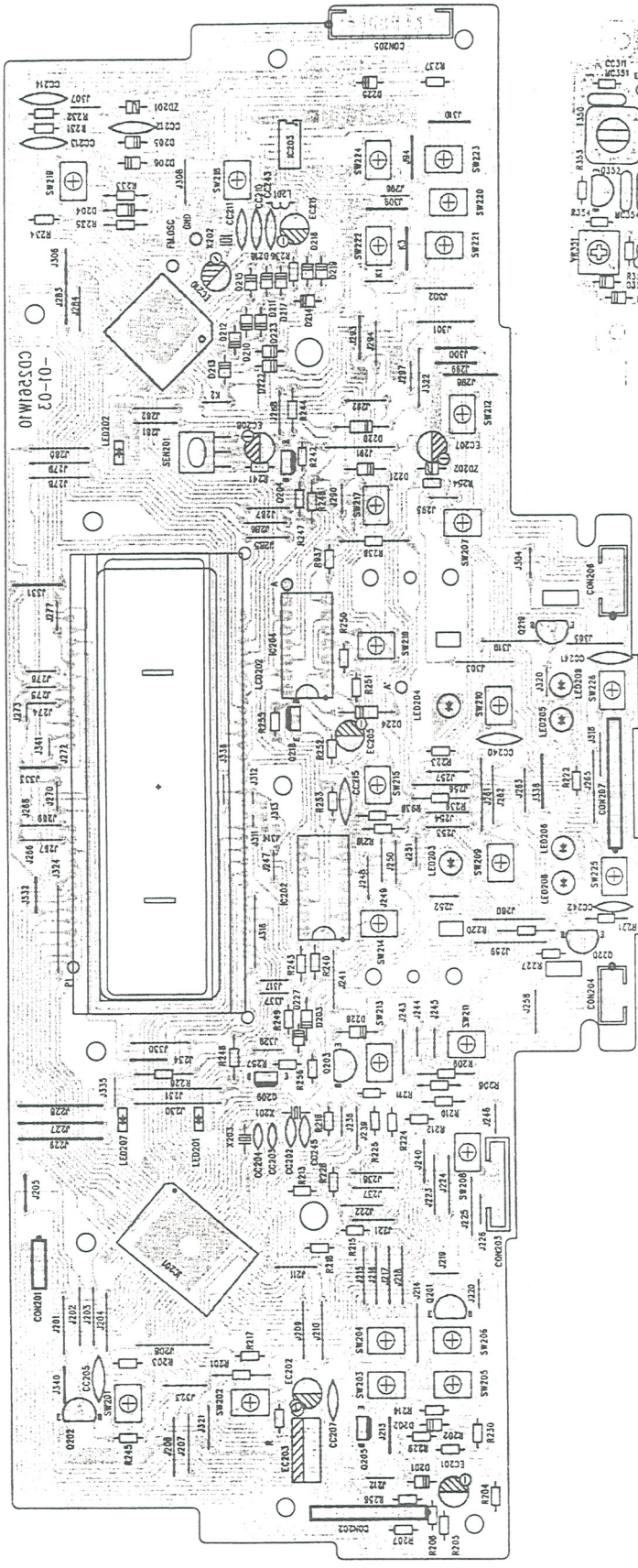
1. All resistance values are indicated in "ohms" (k=1000 ohms. M=1000 kohms)
2. All capacitance values are indicated in "μF" ($p=10^{-6}\mu F$)

MAIN BOARD
(CD2561W10-01-01)

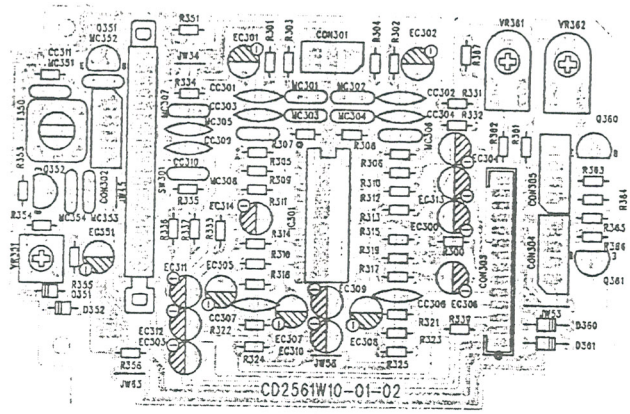


REMARKS:
PCB Part No.: 033-002561-501 of this model are assembled and aligned in FULL SET and are supplied in FULL SET for serving.

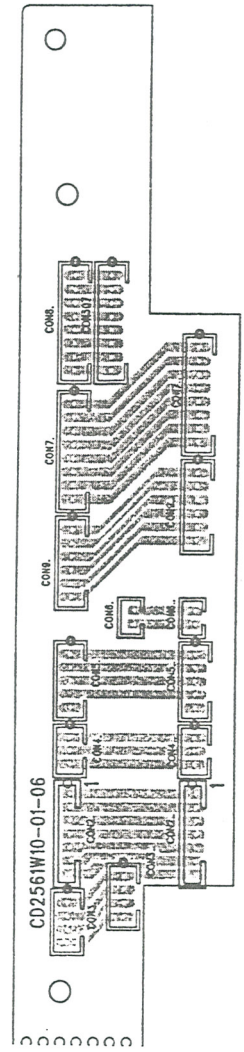
DISPLAY & CONTROL BOARD
(CD2561W10-01-03)



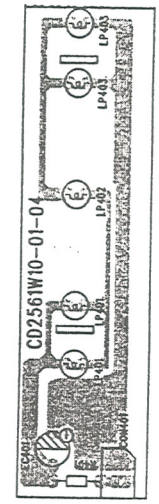
CASS. PRE-AMP BOARD
(CD2561W10-01-02)



CONNECT BOARD
(CD2561W10-01-06)



LIGHT BOARD
(CD2561W10-01-04)



EXPLODED DRAWING - CD MECHANISM (5CD1)